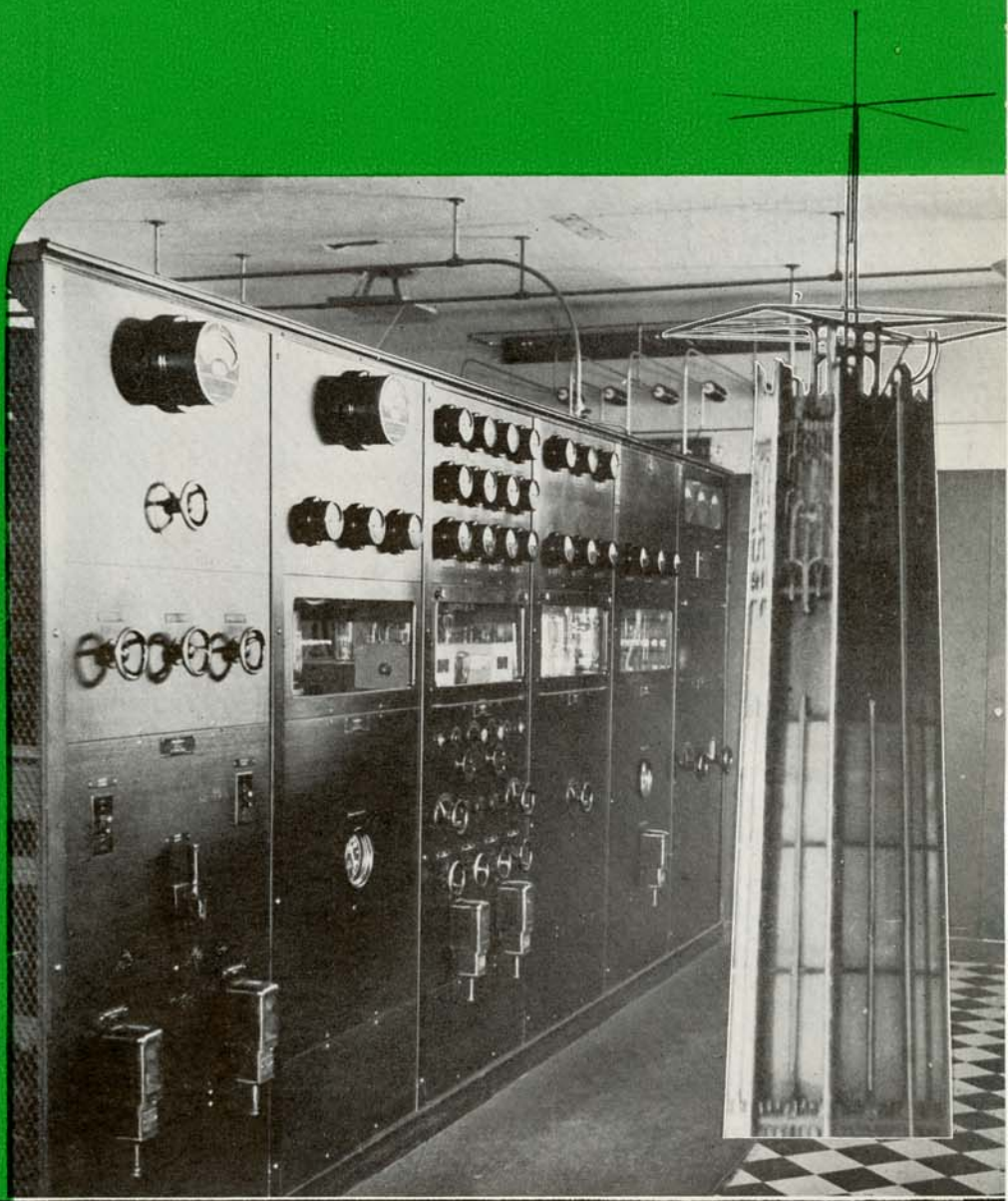
BUILDING FOR A *Career* IN

COMMERCIAL RADIO ENGINEERING

ANNUAL CATALOGUE
SECTION SIX
College of Electrical Engineering



COURSES IN
COMMERCIAL RADIO ENGINEERING
THE THIRTY-EIGHTH YEAR
1940 - 1941

An Official Bulletin of the

MILWAUKEE SCHOOL of ENGINEERING
Institute of Electrotechnics

MILWAUKEE WISCONSIN

FOUNDED BY OSCAR WERWATH IN 1903
CHARTERED BY THE STATE OF WISCONSIN

Curriculum Leading to the Certificate in
COMMERCIAL RADIO ENGINEERING

A CONCENTRATED technical training in radio combined with the first year of college engineering education

(With Optional Aviation-Radio Electives)

The Scope There are two courses preparing for semi-professional opportunities in radio engineering offered by the School. Both are designed to give practical training and theoretical understanding in the fields of radio broadcasting, operating, maintenance, service and sales. Both courses combine the first year of general college education in engineering with specific technical training. The schedule on this page is planned in three semesters with or without the optional aviation-radio electives. The course without the optionals can be pursued in two semesters by mature students who desire to obtain in one year sufficient comprehensive knowledge leading to semi-professional job opportunities. The subjects for the two-semester course are identical with those as outlined for the three-semester program.

Time Required The three-semester program can be completed in three successive semesters. The two-semester schedule can be completed in ten months. The opening dates fall in September and February of each year and may be found in Section Two of the Annual Catalogue.

Costs: Tuition and Fees Tuition and laboratory fees for the Commercial Radio Engineering course in three semesters if paid by the semester total $135 per semester. These fees can also be paid on registration for the whole course and then total $395. If the optional aviation-radio electives are included, the total tuition is increased by $50. If paid by the semester, the tuition for the first semester is $135 and for each of the succeeding semesters $160 per semester. If the course is pursued in two semesters, tuition and laboratory fees total $197.50 per semester or $375 on registration. Partial Payment and Extended Payment Plans are available to approved applicants. For information on these payment schedules, write for the pamphlet entitled "How To Finance Your Education" (Section Ten, Annual Catalogue). The Student Activities Association fee is $5 per semester. Official transcripts after the first original can be had at $1; carbon copies of these transcripts are available at 25 cents each.

Equipment and Supplies The student is required to furnish his own books and tools. Total costs for these supplies average approximately $32 for the Commercial Radio Engineering course. This estimate is increased by $5 if the optional aviation-radio electives are to be pursued also. This estimate excludes the slide rule.

Outline of Course for the COMMERCIAL RADIO ENGINEERING Certificate in Three Semesters

*(Aviation—Radio Electives Optional)**

Subject No.	Title of Subject†	Total Periods	Periods per Week	Credit Hours
Semester One				
Radio Regs. 1-B	Radio Regulations	20	1	1
Radio Tele. 1-A	Code Sending and Receiving	100	5	2½
Elect. 1-B	Wiring, Metering and Testing	80	4	4
Elect. 11-B	Wiring, Metering and Testing Practice	120	6	4
Draft. 1-A	Theory of Drafting and Descriptive Geometry	20	1	1
Draft. 11-A	Geometric Construction and Engineering Drawing	160	8	4
Slide Rule 1-A	Slide Rule Theory and Practice	20	1	1
Math. 5-A	College Algebra	100	5	5
		620	31	22½
Semester Two				
Radio 1-C	Theory of Radio Reception and Amplification	120	6	6
Radio 11-C	Radio Servicing Laboratory	80	4	2½
Radio Tele. 2-A	Advanced Code and Traffic Procedure	100	5	2½
Elect. 2-B	Survey of Electrical Machinery, Distribution and Transmission	80	4	4
Elect. 12-B	A-c and D-c Motor and Generator Laboratory Practice	120	6	4
Math. 6-A	Plane Trigonometry	60	3	3
		560	28	22
*Aviation 2-A	Aviation Ground School	100	5	5
		660	33	27
Semester Three				
Radio 2-B	Theory of Radio Transmission	100	5	5
Radio 12-B	Radio Transmission Laboratory	80	4	2½
Radio Tele. 2-A	Advanced Code and Traffic Procedure	100	5	2½
Math. 7-A	Analytic Geometry	80	4	4
Physics 1-A	Mechanics of Solids, Heat and Sound	80	4	4
Commerce 1-B	Principles of Business Communication	80	4	4
		520	26	22
*Radio 3-A	Aviation Radio	60	3	3
		580	29	25

†A summary-synopsis of each subject will be found in Section Two of the Annual Catalogue.